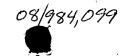




TTC Phe>	CAC His>		TCA Ser>	TCT Ser>	240	AAG Lys>	GAA Glu>		AAA Lys>
TTC Phe	AGC Ser	140	ACC Thr	GAG Glu		GAG Glu	CAT His		GAT Asp
O CCT Pro	GGT Gly	\vdash	ACA Thr	GAA Glu	•	CAT His	280 AAA CAT Lys His		\mathtt{TAC}
4 CAT His	ATC Ile		CAA Gln	CAC His		AAA Lys	28 AAA Lys		GAG Glu
CGT Arg	ATG Met		ACA Thr	180 AAG Lys		CCA Pro	TGC		GAA Glu
TTT Phe	80 CTA Leu		CAC His	GAA Glu		\mathtt{TAC}	CCC Pro	320	CAC His
AAC Asn	TCA Ser		TTC Phe	TAC Tyr	220	GAG Glu	AAA Lys	(-)	GAG Glu
CAT His	GTC Val		TTA Leu	AAA Lys	22	GAA Glu	CAA Gln		AAG Lys
GCT Ala	ACT Thr	120	CAT His	TCA Ser		CAT His	AAA Lys		TCG
20 ATG Met	ATT Ile		CGA Arg	GCT Ala		\mathtt{TAT}	260 GAA Glu		GAA Glu
ACC Thr	CTC Leu		GCT Ala	160 CAA TTG Gln Leu		AAA Lys	2 GAG Glu		CGC Arg
TTA Leu	TTA Leu		GCG Ala	16 CAA Gln		CCA Pro	AAG Lys		TCA
TGG Trp	60 CTT Leu		TCA Ser	CCA		CAG Gln	TAC TYY	300	GAG Glu
ATT Ile	CAA Gln		TCG Ser	CTG	200	AAA Lys	ATG Met		CAC His
TCT Ser	TTC Phe	100	GTC Val	GAG Glu		\mathtt{TAC}	GAA Glu		\mathtt{TAC}
CTT Leu	CTT Leu	1(ACC Thr	TCA Ser		GAA Glu	CCT		GAG Glu

FIGURE 1A





	AAA Lys>		GAT Asp>	480	TCG Ser>		TGG Trp>	ATA Ile>	
380	GAG Glu		CAA Gln		GAA Glu		AAA Lys	AAA Lys	620
m	CAC His		AAA Lys		CAC His	0	CCC Pro	CCG	9
	GAG Glu		GAC Asp		TCA	520	TTC Phe	$\mathtt{TAT}\\\mathtt{TY}x$	
	AAA Lys	420	AAG Lys		GAG Glu		GAT Asp	GAA Glu	
	CCT Pro		\mathtt{TAC}		CAG Gln		CCC Pro	560 GCC Ala	
	AAG Lys		GAG Glu	460	GAG TGC Glu Cys		AAA Lys	AAA Lys	
	GAA Glu		CCC Pro	4(GAG Glu		GAA Glu	CAT His	
360	TGG Trp		ATA Ile		GAA Glu		AAA Lys	AAA Lys	* 009
	AAA Lys		AAA Lys		GAT Asp	500	GAG Glu	GAG Glu	
	CCC Pro	400	CCG Pro		AAA Lys	Ξ,	\mathtt{TAC}	CAC His	
	TTC Phe	4(\mathtt{TAT}		CAT His		GAG Glu	$\frac{GGG}{G 1 Y}$	
	GAT Asp		GAA Glu		AAA Lys		GAA Glu	540 AAA Lys	
	CCC Pro		GTC Val	440	AAT AAG Asn Lys		CAC His	CCT	
01	AAA Lys		GAA Glu	7	AAT Asn		GAG Glu	AAG Lys	30
340	GAA A		CAC His		GAG Glu		AAA Lys	GAA Glu	580

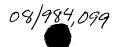
640 TTC CCA AAG CAT GAA AAA GAA GAG GAG AAG AAA CCT GAG AAA GGC ATA Phe Pro Lys His Glu Lys Glu Glu Glu Lys Lys Pro Glu Lys Gly Ile>

CCT GAG TGC AAG GAA AAA CTA GAT GAG GAT AAG GAA CAT AAA CAT GAG Pro Glu Cys Lys Glu Lys Leu Asp Glu Asp Lys Glu His Lys His Glu>

TAA TGT T *** Cys Xxx>



720	TAC Tyr>	CAT His>		GTT Val>	TGA ***>		AGT Ser>	960 ATG
	GTT Val	GTG Val		ATT Ile	860 CC7 Pro		\mathtt{TAT}	TGT Cys
	CAT His	50 CTG Leu		\mathtt{TAT}	860 CAT CCA His Pro		$_{\rm GLY}^{\rm GGT}$	TGT Cys
	GTC Val	760 ACA CT Thr Le		AAT Asn	ATT Ile		AAT Asn	GAA Glu
	GAA Glu	ATG Met		TGT Cys	TGC Cys	006	CTG	TTT Phe
	GCC Ala	CAT His	*	\mathtt{TAT}	GTG Val		ATT Ile	AAT Asn
0 *	ATG Met	AGC Ser	ω	GGA Gly	TGT Cys	-	GAG Glu	940 GAA ATT Glu Ile
700	TGA ***	TTA Leu		ATG Met	ATG Met		ATA Ile	940 GAA AG Glu I
	GCC Ala	GCC Ala		TTC Phe	840 GAA Glu		TGC	AGT Ser
	AAT Asn	740 TAA ***		AAT Asn	TGG Trp		GCA Ala	TCT Ser
	TAA * * *	7 CAC His		AGT Ser	GAG Glu	30	TTT Phe	TGT Cys
	$_{\rm GLY}^{\rm GGT}$	GAG Glu		TGC Cys	GGT Gly	88	CTC	GTT Val
	GTG Val	CTC Leu	780	TCA	GAT Asp		AAT Asn	ATC Ile
089	TGA ***	TGG Trp		TCA	AAA Lys		CTG	920 TAT TYr
O	CCC Pro	GTC Val		CCA Pro	20 AAA Lys		ATG Met	9 TGT Cys
	GTA Val	TCA		GTG Val	820 AAT AAA Asn Lys		GCA Ala	TTA Leu



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TRACSTAN

TTTTTAAACT	ACGATTTATG	AATAAATAAG	TTTTCTAGTT AATAAATAAG	CGTACGAGAG CTCGGATTGA	CGTACGAGAG	
*		580		260		
GACCGGGCGG	AAGGTGATCA GCAAACTTAG	AAGGTGATCA	TCTAATTTCT	CTCAAATTTT	TGTAAGCTCA	
540		520	·	500		
480 GTTGAGTTAC ACACTGAGCT		460 TATATGAACT GTTTGATTAG	TATATGAACT	440 AGTTTTTTGC ATTATTTTAC	AGTTTTTGC	
GTTTGAAACA	GCCACTAACC GATTTGGTGG TGAACTTTAA CATGTCATGC ATTTGTAACT GTTTGAAACA	CATGTCATGC	TGAACTTTAA	GATTTGGTGG	GCCACTAACC	
420		400		380		
360 TGATATGCCC AAGATTTTAG		340 TTTCATCTGC	320 TATTGAAACT AATTTGAATA TTTCATCTGC		TTAACAACTT	
AGCTAACCAT	ATAGGATAAC CTAATAGCAA AATCACAATC AGATATTAAA CCATGATTTT	AGATATTAAA	AATCACAATC	CTAATAGCAA	ATAGGATAAC	
300		280		260		
AGCTAAAAAA	TTTTTTCACT GATTTACATC CTTTATATAG GCTGAAACTA CAACAACTTT AGCTAAAAAA	GCTGAAACTA	CTTTATATAG	GATTTACATC	TTTTTCACT	
240		220		200		
180 TCAATACACT	180 CAATAACACT TTGTGAATTG TATACAAAAG ACTCAATGAA AAACAATAAC TCAATACACT	160 ACTCAATGAA	TATACAAAAG	140 TTGTGAATTG	CAATAACACT	
GAAGCTTACT	CCCCCGTGGA CTAAACAAAA CATGGGAAGA TTTGCTGTAA AAAAATAAAA GAAGCTTACT	, TTTGCTGTAA	CATGGGAAGA	CTAAACAAAA	CCCCCGTGGA	
120	-	100		80		
60 ACTAGTGGAT	20 ACTAAAGGGA ACAAAAGCTG GAGCTCCACC GCGGTGGCGG CCGCTCTAGA ACTAGTGGAT	40 GCGGTGGCGG	GAGCTCCACC	20 ACAAAAGCTG	ACTAAAGGGA	

Figure 2A





099	TTATTTGCTT	720	ACAAACTAAG	780 TAATCATTTA	840	TAAAAATTGG	006	GGGCGATATC	960 AGGGCGAGTG GGCȚCATTTT	1020	ATTTTGTAAA	1080 CTTTTGTGTG	1140	GGCATGTGAC.	1200	TCTGTTCTAC
	TTTTGTTT		ATATGTTTTT	780 CAAAATAAAG TAATCATTTA		AGTATTTTCC		ATATGTTACA			AAGGTCAAAG	ATGTTTTTT		CAATTCTTAT		TATTATTGAA ATCTGATGCA TCTGTTCTAC
640	ATTATGGACT TTTTGGACTA TGTAACTGTT TGGGACTTTA TTTTTGTTTT TTATTTGCTT	7007	TAGTAATTAT TATTTTAAA CTGCAAAATT ATATGTTTTT ACAAACTAAG	760 CAAAATTCCA TAACTTAGAA TTTTTCGCTG	820	CTGTAATAAA ATAAATAAAT AATTTTAACG AGTATTTTCC TAAAAATTGG	880	AAATTGATTT ACCAAAATTA GTATGTCAAA ACACATGTTT ATATGTTACA GGGCGATATC	940 GGCGGGGTTT GGAGTGTTAC	1000	GAGTAAGTAT AGTTAGGGCC GAGTTTTAGA TTGCATATTC AAGGTCAAAG ATTTTGTAAA	1060 GATTGTCCGA TTAACGAAAT	1120	CGTGTGATAA GTATATAGTA TGTTTTATTC	1180	TATTATTGAA
	TGTAACTGTT		TATTTTAAA	TAACTTAGAA		АТАААТАААТ		GTATGTCAAA	GGCGGGGTTT		GAGTTTTAGA	GATTGTCCGA		GTATATAGTA		ATTGATTTGT
620	TTTTGGACTA	089	TAGTAATTAT		008	CTGTAATAAA	860	ACCAAAATTA	920 GTCTAGGCAA ATAACATCTA	086	AGTTAGGGCC	1040 CTTCGATGAA TGATATGTAT	1100	CGTGTGATAA	1160	TTCTAATTAA ATTGATTTGT
	ATTATGGACT		TTTTGGATT	TCACAGTTTT		AGTGTTTTT		AAATTGATTT	GTCTAGGCAA		GAGTAAGTAT	CTTCGATGAA		TGTTTTATCT		ATTGTGGCTA

Figure 2B



1260 GTTTAACATG	1320	GGGATGATAT	1380 CTGGTGGTTT AACCACATAT	1440	TTCTGGAAAT	1500	GGATGGACGA	1560 GAAAAAATT	1620	AATTTTGGTC	1680 TTATTACATT ATATGTGTTT	1740	ATCATTTCAG	1800	TCTCACATCA	1860 TGGACTGTCT GACTAATTTT
1260 ACGATTGCAA GTTTAACATG	,	ACATGGGGTT GGGATGATAT	CTGGTGGTTT		CCCATATCTG		GGTGTGTTTT	1560 GGAAATTTTC GAAAAAATT		ATGCATTCTC	TTATTACATT		CAATTATTTA		GGATTGGTTT	TGGACTGTCT
1240 TGTTRAAGAT	1300	ATGTCACATT	1360 TTTGCACTAT	1420	CGGTTATGGT GGCTCGACCG CCCATATCTG	1480	TTATCTGTGA CTCTGGTGGC ATTGTCTACA ATTATTTGTT GGTGTGTTTT GGATGGACGA	1540 GTGTGTTGCG GAGTTGGGTA	1600	TAACATAATC	1660 CCTGATCTGT	1720	ATAGCTCACC	1780	TCAGGAGCTT	1840 TATGGACTTT
TACTGCTTTC		CTTGCATGCT	AGTTTAATGA		CGGTTATGGT		ATTGTCTACA	GTGTGTTGCG		AATATTGCAT	TCTATGATAT		ATTGAGATTC		TGGATGGCGT	AATTAAAATT
1220 AAAGCATGGA ATCTCATGCC	1280	TGATTTTGTC	1340 AAGTTTTGAC	1400	TTGTTATGGC ATCTTGACTG	1460	стстввтввс	1520 GTCGTGGGGA ACTCTATTTG	1580	TTTTCTGAAA	1640 TATAAAATTC	1700	TAAGTCAAAC	1760	GACTTAGGAT	1820 ТАТТТТАТТА ААТААТТАТТ
AAAGCATGGA		CTTACTATTT	GGTAAGGAGG		TTGTTATGGC		TTATCTGTGA	GTCGTGGGGA		TGCATTGTGT	AATTGAACGT		ATGCTTGAGT		GCAATCTGCA	TATTTTTA

Figure 2C





GGCGTACGAC	CTAAGGTGAT CAGCAAACTT AGGACCGGGC	CAGCAAACTT		TTTCTAATTT	CACTCAAATT
540		520		500	
CTTGTAAGCI	ACACACTGAG	AGGTTGAGTT	CTGTTTGATT	GCATTATTTT ACTATATGAA CTGTTTGATT AGGTTGAGTT ACACACTGAG	GCATTATTTT
480		460		440	
CAAGTTTTT	CTGTTTGAAA	GCATTTGTAA	GGTGAACTTT AACATGTCAT	GGTGAACTTT	CCGATTTGGT
420		400		380	
AGGCCACTAA	CCAAGATTTT AGGCCACTAA	GCTGATATGC	TATTTCATCT	TTTATTGAAA CTAATTTGAA TATTTCATCT GCTGATATGC	TTTATTGAAA
360		340		320	
ATTTAACAAC	TTAGCTAACC	AACCATGATT	TCAGATATTA	ACCTAATAGC AAAATCACAA TCAGATATTA AACCATGATT TTAGCTAACC ATTTAACAAC	ACCTAATAGC
00 K		280		260	
AAATAGGATA	TTAGCTAAAA AAATAGGATA	TACAACAACT	AGGCTGAAAC	CTGATTTACA TCCTTTATAT AGGCTGAAAC	CTGATTTACA
240		220		200	
CTTTTTTCA	ACTCAATACA	AAAAACAATA	AGACTCAATG	CTTTGTGAAT TGTATACAAA AGACTCAATG AAAAACAATA ACTCAATACA CTTTTTTTC?	CTTTGTGAAT
180		160		140	
CTCAATAACA	AAGAAGCTTA	, АААААААТАА	GATTTGCTGT	GACTAAACAA AACATGGGAA GATTTGCTGT AAAAAAATAA AAGAAGCTTA CTCAATAACA	GACTAAACAA
120		100		80	
60 ATCCCCCGT0	60 CCGCTCTAGG ATCCCCCGTG	40 GCGGTGGCGG	GAGCTCCACC	20 ACTAAAGGGA ACAAAAGCTG GAGCTCCACC GCGGTGGCGG	ACTAAAGGGA





580 AGCTCGGATT GATTTTCTAG TTAATAATA AGACGATTTA	ТТААТААТА	580 AGACGATTTA	TGTTTTAAA	600 * CTATTATGGA
620		640		099
GTAACTG	CTTTTTGGAC TATGTAACTG TTTGGGACTT	TATTTTGTT	TTTTATTTGC	TTTTTTGGA
089		700		720
PATTTTA	ATTATTTTA AACTGCAAAA	TTATATGTTT	TTACAAACTA AGTCACAGTT	AGTCACAGTT
740		760		780
CATAACTTAG	AATTTTCGC	TGCAAAATAA	AGTAATCATT	TAAGTGTTTT
800		820		840
ATAAATAA	AAATAAATAA ATAATTTTAA	CGAGTATTT	CCTAAAAATT	GGAAATTGAT
860		880		006
STATGTCA	TTACCAAAAT TAGTATGTCA AAACACATGT	ТТАТАТСТТА	CAGGGCGATA	TCGTCTAGGC
920		940		096
3GCGGGGT	AAATAACATC TAGGCGGGGT TTGGAGTGTT ACAGGGCGAG TGGGCTCATT	ACAGGGCGAG	TGGGCTCATT	TTGAGTAAGT
980		1000		1020
CCGAGTTTTA	GATTGCATAT	TCAAGGTCAA AGATTTTGTA	AGATTTTĞTA	AACTTCGATG
1040		1060		1080
ATGATTGTCC	GATTAACGAA	ATATGTTTT	TTCTTTTGTG	TGTGTTTTAT





1140	ACATTGTGGC	1200	ACAAAGCATG	1260	TGCTTACTAT	1320	ATGGTAAGGA	1380	ATTTGTTATG	1440	ATTTATCTGT	1500	GAGTCGTGGG	1560	TTTGCATTGT	1620	TCAATTGAAC
	ATGGCATGTG		CATCTGTTCT		AAGTTTAACA		TTGGGATGAT		TTAACCACAT		CGCCCATATC TGTTCTGGAA		TIGGIGIT TIGGAIGGAC		TAGGAAATTT TCGAAAAAA		TCAATTTTGG
1120	TATGTTTTAT TCCAATTCTT ATGGCATGTG ACATTGTGGC	1180	AAATCTGATG	1240	ATACGATTGC	1300	TCCTTGCATG CTATGTCACA TTACATGGGG TTGGGATGAT ATGGTAAGGA	1360	ATCTGGTGGT	1420	CGCCCATATC	1480		1540		1600	ATTAACATAA TCATGCATTC
	TATGTTTTAT		GTTATTATTG		TCTGTTAAAG		CTATGTCACA		GATTTGCACT		GTGGCTCGAC		CAATTATTTG		CGGAGTTGGG		ATTAACATAA
1100	CTCGTGTGAT AAGTATATAG	1160	TATTCTAATT AAATTGATTT GTTATTG AAATCTGATG CATCTGTTCT ACAAAGCATG	1220	GAATCTCATG CCTACTGCTT TCTGTTAAAG ATACGATTGC AAGTTTAACA TGCTTACTAT	1280	TCCTTGCATG	1340	GGAAGTTTTG ACAGTTTAAT GATTTGCACT ATCTGGTGGT TTAACCACAT ATTTGTTATG	1400	TGCGGTTATG GTGGCTCGAC	1460	GACTCTGGTG GCATTGTCTA CAATTATTTG	1520	TGGTGTGTTG	1580	AAAATATTGC
	CTCGTGTGAT		TATTCTAATT		GAATCTCATG		TTTGATTTTG		GGAAGTTTTG		GCATCTTGAC		GACTCTGGTG		GAACTCTATT		GTTTTTCTGA



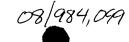
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1680	r ttatgcttga	1740	C AGGCAATCTG	1800	г сататттат	1860	I TTCAGAATTT	1920	T TCTGCATAAT	1980	TTTTTTTCAA AATTGAAACG TTTAAGAATT	2040	CAAATTCAGA ATAAGTGAAT TTGTTTTTA GAAAGATTAA ATAAGTTAGT	2100	TTTTTGAACA TAATTATTTG	2160	r graaaartac
	TTATATGTG		TAATCATTTC		TTTCTCACAT		CTGACTAATT		TTTTAAATAT		AATTGAAAC		GAAAGATTA				CTTCTTTTT
1660	GTTTATTACA TTATATGTGT	1720	CCCAATTATT	1780	TTGGATTGGT	1840	TTTGGACTGT	1900	TAGATAATTA	1960		2020	TTGTTTTTA	. 2080	GTAATGTATG	2140	GAAATATCTT
	ATCCTGATCT		TCATAGCTCA		GTTCAGGAGC		TTTATGGACT		TTGAATTTTT		TTTGAAAAGG ATGTTCGAAT		ATAAGTGAAT		TTAGTTTGAT TTGGTGGAAA GTAATGTATG		GGAATAAACG
1640	GTTATAAAAT TCTCTATGAT ATCCTGATCT	1700	GTTAAGTCAA ACATTGAGAT TCATAGCTCA	1760	ATTGGATGGC	1820	TTAATTAAAA	1880	TTGGGTTTTG	1940	TTTGAAAAGG	2000	CAAATTCAGA	2060	TTAGTTTGAT	2120	ACAATAATTA AGTTTTCTAG GGAATAAACG GAAATATCTT
	GTTATAAAAT		GTTAAGTCAA		CAGACTTAGG		ТАААТААТТА		TATTTGGTT		TTTTCTGTTA		TTTACTACTG		ATTACGATTT		ACAATAATTA



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TAADS LINES	

2220	AGCTTTAAGT AGTCAGTGTA	2280	AGTAAGTCTA	2340	TTTCCTTTTT	2400	CGATTTATCA	2460	AGTTTTCGAA	2520	AGTTATATCT	2580	AACTCTCTAT	2640	GTCCCTAAGT	2700	CATCAAATTT
			GTGCTACAGT AGTAAGTCTA		ATCTACAACT		TAATTTATTA		AGTTCAATTC		AAACCGAAAT		ATCCTTTTAT		TTACACTTTA		CACATCTAAG
2200	TAATGCAAGA ACAAACAACG TTTTGGGGAG CAAATAATCT	2260	TGAGTTTGCT	2320	CCTGACAAAA CGACATGACG TCAGGGTCGA ATCTACAACT	2380	CTTCAATTAA CATATGGTTG ATTCAAGTTC CGATCTATAA TAATTTATTA CGATTTATCA	2440	CCTTATATCA TCCTATTATA AATATAAGTC AGTTCAATTC	2500	TTATTCCCTA	2560	TTCAATCCGA TTTCAATTTC	2620	TTTGAAATAT TTACACTTTA GTCCCTAAGT	2680	AAATTTTCAC TTTAGAAATT AATCATTTTT CACATCTAAG
	TTTTGGGGAG		TCTGGTCATA ACTTCTAGGC		CGACATGACG		ATTCAAGTTC		TCCTATTATA		TTTATTAAAT		TTCAATCCGA		TCAAATTAAT		TTTAGAAATT
2180	ACAAACAACG	2240	TCTGGTCATA	2300		2360	CATATGGTTG	2420		2480	AGTTCCCAAA AATTTTGAAT	2540	AGTTTCATTT	2600	TACATAAATT	2660	
	TAATGCAAGA		ACTCTCAAAA		TAGAAACTTA		CTTCAATTAA		ATTTCAATTA		AGTTCCCAAA		TTCAAATTTA		ТАТСТАТААТ		TCAAAACTAT



O1P /	100 12 10 10 10 10 10 10 10 10 10 10 10 10 10
ARME TRAC	Sinkly .

2760	CAAAACATAA	2820	TTGAACAACA AAGCTTGGCC	2880	GGTGGAGAGA	2940	TATTAATAAT	3000	TATTTAACA	3060	GATCAAAGTT TGAGCTGCCT	3120	TGTTTAGTTC AACTGCTCAC	3180	AAAAAAACT	3240	TATATTTTAA AATAAAATTA
	TTTGAGTCTT		TTGAACAACA		TGTTGCAAAC		ТААСАТАТАА		ATACGTAAAG				TGTTTAGTTC		CACACACACA		TATATTTAA
2740	AACCAAATGA CACAAATTTC ATGATTAGTT AGATCAAGCT TTTGAGTCTT CAAAACATAA	2800	яттатсаат	2860	TGTTTCTTTT	2920	TATTATGTTT	2980	GTGAATGTGA CAGTGGGGAG	3040	TGCAAGCAGT TGGCTGGTCT ACCCAAGAGT	3100		3160	AGAATAATGT TAAAATGAAA TTAAAATAAG GTGGCCTGGT CACACACACA AAAAAAAACT	3220	TATATTACGG AATGTAATAT
	ATGATTAGTT		ACTTAAAATC		AGCTTAAAAA TGGCTTCTTT		CATATTTTT				TGGCTGGTCT		CATAATGGAT		TTAAAATAAG		
2720	CACAAATTTC	2780	AAATTACAAA AAAAAACAA ACTTAAAATC	2840	AGCTTAAAAA	2900	AGAGGGAAAT GAAGATTGAC	2960	ттатастттб	3020		3080	TCAATGAGCC AATTTTTGCC CATAATGGAT AAAGGCAATT	3140	TAAAATGAAA	3200	AATGTTGGTT GGTTGAATTT
	AACCAAATGA		AAATTACAAA		GAATGCTAAG		AGAGGGAAAT		TTAATCATAA		TTATACTTT		TCAATGAGCC		AGAATAATGT		AATGTTGGTT

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	3800		3820	3840
AATATAACAT	ACGGAACATC	TTACTTGTAA	TCTTACATTC	AATATAACAT ACGGAACATC TTACTTGTAA TCTTACATTC CCATAATTTT ATTATGAAAA
	3860		3880	0068
АТААТСТТАТ	ATAATCTTAT ATTACTCGAA	CTAAATGTTG	тсасадатта	TTATCTAAAT AAAGAAAAAC
	3920		3940	3960
ACTTAATTTT	ТАТААСАТТТ	TTTCATATAT	TTGAAAGATT	ATATTTTGTA TATTTACGTA
	3980		4000	4020
AAAATATTTG	ACATAGATTG	AGCACCTTCT	ТААСАТААТС	AAAATATTTG ACATAGATTG AGCACCTTCT TAACATAATC CCACCATAAG TCAAGTATGT
	4040		4060	4080
AGATGAGAAA	TTGGTACAAA	CAACGTGGGG	CCAAATCCCA	AGATGAGAAA TTGGTACAAA CAACGTGGGG CCAAATCCCA CCAAACCATC TCTCATTCTC
	4100		4120	
тсстатаааа	GGCTTGCTAC	TCCTATAAAA GGCTTGCTAC ACATAGACAA CAATCCACAC A	CAATCCACAC	A CA AAT ACA CGT TCT <ile arg<="" cys="" td="" thr=""></ile>
4140 TTT CTT TCT Lys Lys Arg	ATT TGA Asn Ser	4160 TTA ACC ATG G (*** Gly His	CTCATAGCAT	4180 CTCATAGCAT TCGTCACCCT TTCTTCCTTT
4200		4220	,	4240
TCCAACTTTT	ACTCATAAGT	TCCAACTTTT ACTCATAAGT GTCTCACTAG		TGACCGGTAG CCACACTGTT TCGGCAGCGG
4260		4280		4300
CŢCGACGTTT	ATTCGAGACA	CAAGCAACCT	CATCAGAGCT	CTCGACGTTT ATTCGAGACA CAAGCAACCT CATCAGAGCT CCCACAATTG GCTTCAAAAT





4320 ACGAAAAGCA		4340 CGAAGAGTCT GAATACGAAA		4360 AGCCAGAATA CAAACAGCCA	AAGTATCACG
4380		4400		4420	
AAGAGTACTC	AAAACTTGAG	AAGAGTACTC AAAACTTGAG AAGCCTGAAA TGCAAAAGGA GGAAAAACAA AAACCCTGCA	TGCAAAAGGA	GGAAAAACAA	AAACCCTGCA
4440		4460		4480	
AACAGCATGA	AGAGTACCAC	AACAGCATGA AGAGTACCAC GAGTCACACG AATCAAAGGA GCAAAAAGAG TACGAGAAAG	AATCAAAGGA	GCAAAAAGAG	TACGAGAAAG
4500		4520		4540	
AAAATCTCGA	CGGGCCCGAA	AAAATCTCGA CGGCCCGAA GATCTTCGCT AGCCGTCGAC GCCCGGGGGA ATTCGTCGAG	AGCCGTCGAC	GCCCGGGGGA	ATTCGTCGAG
4560		4580		4600	
CCTTGAATCA	CCTTGAATCA TATGACGCTG	GTGCATGTGC CATCATCATG CAGTAATTTC	CATCATCATG	CAGTAATTTC	ATGGTATATC
4620		4640		4660	
GTAATATATA		GTTAATAAAA AAGATGGTGA	TTGGGAAATG	TGTGTGTGCA	TTCCTCCATG
4680		4700		4720	
CACTAATGGT	GAATCTCTTT	GCATACATAG	AAATTCTAAA	TGGTTATAGT	TTATGTTATA
4740		4760		4780	
GTGTATGTTG		TAGTGAAAKT AATTTTAAAT	GTTGTATCTA ATGTTAACAT	ATGTTAACAT	CACTTGGCTT
4800		4820		4840	
GATTTATGTT	ATGTTATGTA	TTTTACTTTA	ATGATATTGC	ATGTATTGTT	AATTTAACAT
4860		4880		4900	
TGCTTGATCA	TGCTTGATCA TTATACTCTT	CTACTATTAA	TTATAAATGG	CACTGTTTTG	TTTAAACTTT

Figure 31





	GTTCAATGTT		ACTTAAAATT		AAAAAATGAA		GTACCATATT		ATTTTTATAC		CAATTTAATT		ATTAAATTCC		TCTTGATTAT		AGATTACATC
4960	TTACAAGTTA AGACATGTAT AAATATATGA CAATATAATT ACAAGTTTTA GTTCAATGTT	5020	AACAAATTCC	2080	TTAATAAATA ATAACAAATA ATTATTGTAA TATAATACAT TAAATGCAAC AAAAAATGAA	5140	ATAAATAAAA TAAAATAGCA AATAATTGTT ATAATATTGT AATATAATAT	5200	CAGTTTAAAT	5260	TTAATTATAC	5320	TAACCTATTA	5380	TAATTATCTT ATCTAATTTA AAACTCTAAT TATCCTAATT TGATTTAAAT TCTTGATTAT	5440	CTTAATTTGT AACCTCCTCC ACCCAGCTAG ATGCTGGACC CGAATCCGGG AGATTACATC
	CAATATAATT		ATTACATTTA		TATAATACAT		ATAATATTGT		CCTAAAATTT		TATTAAAATT		AAATTTTATT		TATCCTAATT		ATGCTGGACC
4940	AAATATATGA	5000	GATGATCTTA	2060	ATTATTGTAA	5120	AATAATTGTT	5180	CTTAACTGAA ATAGGGTCTA ACCTATAATC	5240	TTTTTAAATA	5300	CTAAAATCTA	5360	AAACTCTAAT	5420	ACCCAGCTAG
	AGACATGTAT		GTATGTTATT		ATAACAAATA		TAAAATAGCA		ATAGGGTCTA		CTGCCATATT ATTAGAACTC		TAAACTATTA ATTATCTTAA		ATCTAATTTA		AACCTCCTCC
4920	TTACAAGTTA	4980	AGCTATCTTA	5040	ТТААТАААТА	5100	ATAAATAAAA	5160	CTTAACTGAA	5220	CTGCCATATT	5280	TAAACTATTA	5340	TAATTATCTT	5400	CTTAATTTGT



5500

5480

GGCATTGAGA TGGCCTAGTA GTGATCAGGG TTTTCTAGAG GTACCCAATT CGCCCTATAG

Figure 3K

TGAGTCGT

5460





50	8 8	146	194	242	290	338	386	434
AAAAAACA ATG AGC ACT GCA AGA TTT ATC AAG TGT GTC ACG GTC GGT GAT	GGA GCT GTG GGG AAA ACT TGT ATG CTC ATT TCA TAT ACC AGC AAT ACT	TTC CCA ACG GAT TAT GTT CCA ACA GTA TTT GAT AAC TTT AGT GCC AAT	GTG GTG GTG GAT GGC AGC ACA GTG AAC CTT GGC CTA TGG GAC ACT GCC	GGG CAA GAA GAT TAT AAT AGG CTA AGG CCA CTG AGT TAT AGA GGA GCT	GAT GTG TTT TTG TTG GCC TTT TCT CTT ATA AGC AAG GCC AGT TAT GAA	AAC ATC TAC AAA AAG TGG ATC CCA GAG CTA AGA CAT TAT GCT CAT AAT	GTA CCA GTT GTG CTT GTT GGA ACC AAA CTA GAT TTG CGA GAT GAC AAG	CAG TTC CTC ATT GAT CAC CCT GGA GCA ACA CCA ATA TCA ACA TCT CAG
Met Ser Thr Ala Arg Phe Ile Lys Cys Val Thr Val Gly Asp	Gly Ala Val Gly Lys Thr Cys Met Leu Ile Ser Tyr Thr Ser Asn Thr	Phe Pro Thr Asp Tyr Val Pro Thr Val Phe Asp Asn Phe Ser Ala Asn	Val Val Val Asp Gly Ser Thr Val Asn Leu Gly Leu Trp Asp Thr Ala	Gly Gln Glu Asp Tyr Asn Arg Leu Arg Pro Leu Ser Tyr Arg Gly Ala	Asp Val Phe Leu Leu Ala Phe Ser Leu Ile Ser Lys Ala Ser Tyr Glu	Asn Ile Tyr Lys Lys Trp Ile Pro Glu Leu Arg His Tyr Ala His Asn	Val Pro Val Val Leu Val Gly Thr Lys Leu Asp Leu Arg Asp Asp Lys	Gln Phe Leu Ile Asp His Pro Gly Ala Thr Pro Ile Ser Thr Ser Gln
1	15	35	50	65	80	95	120	130





טטם גינט ישיר שינה שטיי משט ייטט ישיר טשיי טייר טער אשט	00
GAA CIA AAG AGG AIG AIA GGA GCA GII ACI IAI AIA GAA 1GC Glu Leu Lys Lys Met Ile Gly Ala Val Thr Tyr Ile Glu Cys 145	4 2 7
AAA ACC CAA CAG AAT GTG AAG GCT GTT TTC GAT GCT GCA ATA Lys Thr Gln Gln Asn Val Lys Ala Val Phe Asp Ala Ala Ile 165	530
GTA GCT TTG AGG CCA CCA AAA CCA AAG AGA AAG CCT TGC AAA AGG Val Ala Leu Arg Pro Pro Lys Pro Lys Arg Lys Pro Cys Lys Arg 180	578
ACA TGT GCT TTC CTT TGAATATTGG ATCATTATTA CAGTCAAAAA Thr Cys Ala Phe Leu 195	626
CAGTTAACAA AAGCTGTTGC AGATAAACAC TGAATCTGCT ATAGTTTGTT TTTGGTTTAC	989
ATATGTTCCA CGTGAAACTA TGAAGCATCT CTAAGAAAAC CCAAACTATC ATATCAACCC	746
ATCGATCAAT GAATCGATTT CAATTTTCGC AGTATAAGTT CCTTTTAATC CTTTCTTTTT	806
ACTTCATTTT ATAACGAATT CTATGGATAA TGTTCCCTAC AAACATGTCA TTACAATGTT	866
TAATTATAAA TTCCATTCTT CTATTTTACT AAAAAAAA	910





GCTGACT	120	CAATCGA	180 AAATTGA	240	ATATTCT	300	GATGTACGAT	360 ATAANCGAAA	420	TTTGATT	480 AATTTAC	540	TGATATTTTA	009	AAATATTCAT
T AA?		T TGC	'A TTC		A TAC					A AAG	A AAT				T AA?
TTTTAATAAT AAAGCTGACT		CCTCTAGGCT TGGCAATCGA	180 ATAAATTTTA TTCAAATTGA	•	GAAAGATAA		TAGGTGTAT	ATAAGTCGAC		AACTTTAAC	480 ATTGTGTTTA AATAATTTAC		AATTTTAGT		ATAATTATA
AATAGTAAAN CCTAACCAAT	100	ATTTTGCTTT	160 CATCGTAGAA	220	TAATTTAAAT GAAAGATAAA TACATATTCT	280	GCTTTGGTGA TAGGTGTATT	340 CATTTTGAGT TTGTATGATG	400	TAAGTCACCA	460 СТТСАААТТТ ТАТААТААА	520	TTTGTCGCCA	580	CCATATACAA ATAATTATAT
AATAGTAAAN		TCATTCTTCT	АТААТАААТА		TTTGTAGATG		AATGTTTGTG	CATTTTGAGT		TGAACTTTGA	CTTCAAATTT		TCTAATTTTA		ATTTACAAGC
TTGGATGAGA ACCAATTTTT	80	CCTAGTACAA GAGCTTTTAT TCATTCTTCT ATTTTGCTTT	140 GAATTTTCTT GTGTTACAAT ATAATAAATA CATCGTAGAA	200	АТСТТТААТА	260	TTTTCATCTT	320 TCACATATCA	380	TATGGTGTGA TCTTCACTTT TGAACTTTGA TAAGTCACCA AACTTTAACA AAGTTTGATT	440 GTGTACATAT ATATATAT	500	TTTTTATC	260	ACATAAAAA AATTGTACAC ATTTACAAGC
TTGGATGAGA		CCTAGTACAA	GAATTTTCTT		AGTCTTAACC		TGGACATGTA	GTCTTTTAAA		TATGGTGTGA	GTGTACATAT		AGTTATATTA		ACATAAAAAA

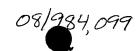
FIGURE 5A





* GATTAATTTA CTTATTTTCC	GATTAATTTA	GTCAAATTGT TATTTGATCT AACACGTAGG	TATTTGATCT		AATAGAAAGG
1200		1180		1160	
GTAATTTTA	AGAAATGAAT	TTTTAACAGT	TCACGCTAAT	ATTCTATCAA	CTATCTGGTT
1140		1120		1100	
1080 CCACGTATAA	ATGTTACATG	1060 TTTACATTAA AATAAGGTAC	TTTACATTAA	1040 TATTGTTAAA AGCTGGTCCG	TTAAA
TGTCCCATTC	AACTAGATTT	TCAAAGAACA	GTACATTAGA	TAATAGATAA ATTAATTGTG GTACATTAGA TCAAAGAACA AACTAGATTT TGTCCCATTC	GATAA
1020		1000		980	
960 TTTTGTCGCA TCTACTTAAA	TTTTGTCGCA	940 TCATATTGCA	TTACTAATAG	920 GAAAGTCGTT	ААААТАТААТ
GATTGAATGA	AATAATTAAG	ATTTAAATAA AATAATTAAG	татасаааат	TTAATATTT	TTTCTTTT
006		880		860	
AAGTTGATGT	ATACATAATG	TGTTTATATT	AGTAAGTTCA	GAAATTTGAG	AAATGGAAGG
840		820		0 *	
780 GTTTTGAAGT TCCAAAAGA	GTTTTGAAGT	760 ССАТТТТАТ ТААСТТСТТG		740 GTCGTAAACA TAATCACTAA	PAAACA
TTGTAAAGAT GAGTATATAT	TTGTAAAGAT	GGTTAGTTTA	тааттаатаа	GTTAAATGTA	GATAACATAG
720		4007		089	•
660 TTAGAATTAT TCTACTTTAA	TTAGAATTAT	640 TATAACTATT	AGGATATAAA	620 ТАААААТАТ АТТТАААТАТ	AATAT

FIGURE 5B





1260 AACTTTCATG ATACTTTTAT	1320	TAGAAACACC	1380 TTGAATAAAT TTTTTTTTT	1440	CAAAATAATC	1500	ACCCAACTAA	1560 GCCATGTCCT TGCACTTAAA	1620	AAGTTGGTTG	1680 CCCTTTTCTT TTCATCCTCC	1740	ATAATCACAG	1800	CTGGACTAGT
		TTAAAAAACA			TCTAGTTAAG CCATAATTAT		CTCCCTCCCT CAATACTTAA ACCCAACTAA	GCCATGTCCT		TCAACAGATA	CCCTTTTCTT		TAAGTTCTTT		CGAGCAAGAT
1240 AATTTGAATC TTAATACAAA	1300	TTATAATTTA ATATTGTGAG AGTAACAAAR TTAAAAAACA TAGAAACACC	1360 CTCATATACA CAGTTAAAAT	1420		1480	CTCCCTCCCT	1540 TTAATAGCCA CCTATTTCTA	1600	GAAAAGTAAA GCTAACCTGC AATCATTCCA TATCGAGGCC TCAACAGATA AAGTTGGTTG	1660 TAAAACCCGG CCCTCAACTT	1720	TTCTTCATAT GGTTCTATTA TAAGTTCTTT ATAATCACAG	1780	AATCAAGATA AGTCCTCAGC AAACAAAAA CCATGGCTCT CGAGCAAGAT CTGGACTAGT
AATTTGAATC		ATATTGTGAG		·	TTTTTTTTT		CTATCAATAC CCCGCCCTGC	TTAATAGCCA		AATCATTCCA			TTCTTCATAT		AAACAAAAAA
1220 TAAAGAAATA AGTAAAATAT	1280	TTATAATTTA	1340 AAAAGTTAGT TATGGTGTGA	1400	GTCATTAATT CCATCATGGG	1460	CTATCAATAC	1520 CACCCAGCAC CAAACGCACT	1580	GCTAACCTGC	1640 ATGGGTTTGC ACCAAGTTGT	1700	CCACTCCACA CCCTCCAATT	1760	AGTCCTCAGC
TAAAGAAATA		CATATTTAC	AAAAGTTAGT		GTCATTAATT		ATCATTAATC	CACCCAGCAC		GAAAAGTAAA	ATGGGTTTGC		CCACTCCACA		AATCAAGATA

FIGURE 5C





GTTTGAGCTG	AATGGGCCGG	CAGAGGTAAT	TAATTTGATG	TGCAGAGGTG ATAATAATCT TAATTTGATG CAGAGGTAAT AATGGGCCGG GTTTGAGCTG	TGCAGAGGTG
. 2400		2380		2360	
CTTAATTTGA	TAGTCCTAAT	TTTTCGTGCA ACTATTACAA AAATCCTTCA TAGTCCTAAT	ACTATTACAA	TTTTCGTGCA	ATTTCTCAAT
2340		2320		2300	
2280 AAATGAATTA	АААТТААААТ	2260 CAAAAACATA AATTTTTGAC		2240 TTTTATTAAA	ATTTCTCAAT
TATTATT	TTAATATTAT	ACAACAATAT	CAATAATTTA	TTGTTAGAAT GATTATTTTT CAATAATTTA ACAACAATAT TTAATATTAT TATTATTATT	TTGTTAGAAT
2220		2200		2180	
2160 TATTTATAAA	ACTAATTTAT	2140 GCTGATTTT	2140 GATATTAGTA ACTTCAAACT GCTGATTTTT		ATTTTACTAA
CCATTCTTCT	ATTATAAATT	TTCCCTACAA ACATGTCATT ACAATGTTTA	ACATGTCATT	TTCCCTACAA	ATGGATAATG
2100		2080		2060	
AACGAATTCT	TTCATTTTAT	TTCTTTTAC	TTTTAATCCT	TATAAGTTCC	ATTTTCGCAG
2040		2020		2000	
1980 ATCGATTTCA	1980 CGATCAATGA ATCGATTTCA	1960 AAACTATCAT ATCAACCCAT		1940 AAGCATCTCT AAGAAAACCC	AAGCATCTCT
TGAAACTATG	ATGTTCCACG TGAAACTATG	TGGTTTACAT	AATCTGCTAT AGTTTGTTTT		ATAAACACTG
1920		1900		1880	
1860 GCTGTTGCAG	1860 GTTAACAAAA GCTGTTGCAG	1840 CATTATTACA GTCAAAAACA	CATTATTACA	1820 CAGAGCTCTG AATATTGGAT	CAGAGCTCTG

FIGURE 5D





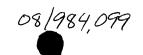
TATCACATAC	CTTGAGTCAG	TCTCTTCAAC CATCCAAAAA CTTGAGTCAG TATCACATAC	TCTCTTCAAC	CCGCCAAACC TGCCCCAATG	CCGCCAAACC
3000		2980		2960	
AGTATGGGAT	AAGGTTAAAG	GAGTTACATT	CAAGCAATTC	CTGAAAGGAC	TTCTTCTTTG
2940		2920		2900	
2880 TAATATTCCA	TGAGCTTAAT	2860 GAAATCATAT	CAATGAAAAT	2840 ATTTGATGCT	CACAGGTCTA
TTAATAACAC	CGAGTCTAGA TTAATAACAC	GAAATATCTT	TTTTTCGGGT	TITATITACA CIGITICAAA ITTITCGGGI GAAATAICIT	TTTATTTACA
2820		2800		2780	
2760 GCTTAATATT	TTTTAAACAG	2740 TTAATTCATA	AAACTCAAAC	2720 TTAAATGCTC	GACTTGGACC
TTGTGGGCTA	AAAATGGGTC	AATAAACTTA	TTATTTTGTT	TAGTATAGGT	TATATATAT
2700		2680		2660	
AGAGTAGTAT	TGTTTATATT	ATTATGTTAA	TCATCTTAAC	* TTTTATATAG	TATTGAAAAT
0796		0630		0096	
2580 ATTTTTTATT	2580 TATTTTATAT ATTTTTATT	2560 ATTTTATTTT AATATTTAAT	ATTTTATTT	2540 TAATTTAAAA AATTTATATC	TAATTTAAAA
TATTTTTT	AGTTCGTCCA	GCCCATTTTA	тттаатссаа	TTTTGTCCAA	GAGTCTAAAA
2520		2500		2480	
2460 CTCGAAATAT	TTCAACCCAG	2440 TTTTCCAAA	GTACTTTATA	2420 TGATATTGAC	GACTTAAGCA

FIGURE 5E



FIGURE 5F

3040 ATGTACCGNT ATTTATTTAT TTATTGAAAT TGGCATTATT TCTTG





)	rgatt 180	3TTT 240	rrrca 300	360 seo	rraar 420	SAGAC 480	AGAGG 540	AGCTA 600	rgcac 660	rrarg 720	SCAAA 780	SCACA 840	AAGCC 900	CTGTT 960	CTACC 1020	AAGTT 1080
AA TTGATTGATT		GT TAGGGGTTTT	GT TACTATTTCA	AC CCTTGACCGC	AA AATCG1	CC GTCATGAGAC	TA ATACGAGAGG	GG TGCGAAGCTA	CCGAATTAGA AACAATGCAC	TAGGTTTAAC CATGTTTATG	GGTTTACTTC CGTGCGCAAA	AA AGTTGG	AG CAAACAAGCC	AG AATCCCTGTT	AA CCCTCCTACC	TC CTTACA
	GATTGATTAA	GGTTAGGGGT	TTAATTTTGT	GGTGAACAAC	ATGTATTA	GGTTTAGACC	ATTCAACTTA	AAGCTAGGGG			GGTTTACT	AGTGAAAG	AAAACAGCAG	AAAACAAAAG	GCAATAAAA	AACCATTT
	CTTTAATTAT	AGCGAAGAGG	TGTTTTATT	AGGTTTTATG	TTATTTTGAA ATGTATTAAA AATCGTTAAT	TATTCACAAG	CACAATAGTA	CTTAGTTGAA	AAGTCAGAAT	ACACGTGTTG	CAACTATAGG	TTATGATTCA AGTGAAAGAA AGTTGGCACA	ACACAGCCTA	AGTACAGAGG	TCAACTTTTG	TACTCCAAGC
	GTAATTTATA	CTAATCCGTT	GTATAACTCT	TATTTCGAGT	AACATTTTAT	TGGGATTAAA	ATGGTCACAT	GGTCATCGCA	GAACACCTCT	AACCCCAATA ACACGTGTTG	TATAAGCAAG CAACTATAGG	GGAGGGGGA	TTTGACAGAG	AACAACCAAA AGTACAGAGG	AAAATAAAAC	CAATCAGCAA TACTCCAAGC AACCATTTTC CTTACAAGTT 1080
	GACTAAATGT	GCCCGTGACC	TTTAGATATT	TTTGTAGTGT	CAAATCAATC ACAAGAGTTC	GCCCCATTAT	TATCTTACTG	TCACGCAATT	GATTATGATT	CCTGATTGCC	TTTTTTTT	ACCTATTTG	GTACATCTGT	ACCCAAAAAC	TGAAAAAAG	CTCAACCCCT AACCACGCAA
	TCGTATTTAG	TNGTAGTAAT	ATTATTATT	AAGGCATTTG	CAAATCAATC	CTATATATTC	AGATTAGTTT	AACCATTGAT	CCGTACGCTG	GTGTCCGTTG	AAAGATAAGG	TTTTAGGTT	CACACAATCA	TAAAGGAATC	ACCACCAAGC	CTCAACCCCT

FIGURE 7A





TGTTTTTTTT GTGATTAATC CAT ATG GCT AGC TCC ATG TCC CTT AAG CTT GCA 1133 Met Ala Ser Ser Met Ser Leu Lys Leu Ala>

1181 666 61y> TGC ATG GTG GGT GCA CCC CTG GCT CAA Cys Met Val Val Gly Ala Pro Leu Ala Gln ren TTG GTG Val CTA Leu Leu Cys

1229 Pro> CTT TGC CCA CGC ' Pro Arg ' CTT ACC Thr GTC Val GGC GTA (Gly Val V GAT Asp GCT CGT Arg ACC Thr GTA Val GAC

1277 CCA Pro> GCC GAT GTT Val GAT GCT Ala GAT Asp GCT Ala GGT AAT Asn ${\tt GGT}$ AAT Asn GGG G1y ATA Ile TTG TTA

1325 TGC GAC ATC GTC AGG GGT CTC TTG AGC TCG CTG CTC TGT GGT CYS Asp Ile Val Arg Gly Leu Leu Ser Ser Leu Leu Cys Gly> TGC GCT Ala

1380 GGT GTT TAGGAACCG ATCTAGCTTG AAATCGGGTT CGGATACGGG TGGAGTTTCA

1500 1800 CATTGGATGA TTCGATAAGG TGACCGGTTT ACCTGGGTAT CCAACCATCA TCCGATTACT 1560 CAATAAAGTA TATTGATTTA GCAGATGATT TGTGTATATA TTTAAATCAA ATCAAACATT 1740 1860 AATTGGTGTG TTATGGAATC CCAACTTAAT CGTGTTTAGG GGTGGGATCC AATTGTGTGA 1440 TITIAAIAAI TATIIGIIIC IICIIIAIGI IGICIGICII IIIGIIICII GAICIAIAAC 1620 ATTATATTTG CCCAAATTTT CGCATTTTCC ATATGTAGCT TATATATGTA TATATATTT 1680 TACATTACAG AGCATGGTTG TGGATTGTTT TCTCATATGT TTTGATTGAC TTGCTTGATA AATGATCATT CACTAGGGTC TTAATCTTGA AAAATTCATC AAGGGTTATC CTTTGCAGCA TATATAAAAA AAATTGCCAA CCCTATGCTT TTACACCTAA TTCAAGGGAT AACATAAGTC

FIGURE 7B

1871

GATTAAAACG





LCh, h	88.4	84.2	88.6	86.1	84.1	79.4	87.9	87.9	80.2	84	87.3	938.10	85.28	3.22	88.6-79.4	2.64																		
Ch,C	5.51	6.48	5.04	5.01	5.87	7.26	4.05	4.99	4.48	6.92	4.00	59.61	5.42	1.11	7.26-4.00	06.0																		
ICh, L	91.84	90.6	92.12	91.75	90.33	92'88	92.76	92.66	92.21	6'68	65.69	1005.62	91.42	1.33	92.76-88.767.26-4.00	1.11																		
Lab,b	5.51	6.45	5.04	5.00	5.84	7.14	4.05	4.99	4.42	68.9	4.00	59.33	5.39	1.08	7.14-4.00	0.88																		
Lab,a	0.16	99'0	0.13	0.35	19:0	1.35	0.15	0.19	0.77	0.74	0.19	5.30	0.48	0.38	1.3513	0.31												,						
Lab, L	91.84	9'06	92.12	91.75	90.33	88.76	92.76	92.66	92.21	89.9	92.69	1005.62	91.42	1.33	92.76-88.76	1.1																		
Yxy, y	0.3266	0.3282	0.3257	0.3255	0.3271	0.3293	0.3237	0.3255	0.3241	0.329	0.3236	3.5883	.3262	.0020	0.3293-,3236	.0017	Hunter B	5.42	6.27	4.98	4.94	5.69	6.85	4.03	4.95	4.38	6.65	3.98	58.14	5.29	0.99	6.85-3.98	0.81	
Yxy, x	.3206	.3232	.3197	.3200	.3220	.3258	.3178	.3196	.3194	.3243	.3178	3.5302	.3209	.0026	.38583178	.0021	Hunter a	0.15	99.0	0.13	0.36	19'0	1.35	0.15	0.19	0.78	0.75	0.19	5.32	0.48	0.39	1.3513	0.31	
Yxy, Y	80.35	77.62	80.98	80.16	77.03	73.67	82.43	82.21	81.19	76.11	82.28	874.03	79.46	2.91	82.43-73.67	2.44	Hunter	89.63	88.10	86.68	89.53	87.76	85.83	62'06	29.06	90.10	87.23	90.70	980.32	89.12	1.65	90.79-85.83	1.37	
Coker 130	1	2	3	4	5	9	7	8	6	0	11	TOTAL	MEAN	S.D.	RANGE	AVER DEV.	Coker 130	_	2	3	4	5	9	7	8	6	10	וו	TOTAL	MEAN	S.D.	RANGE	AVER DEV.	



						 				,						
LCh, h	81.3	82.2	9.98		135.2											
LCh,C	15.28	14.44	11.31		11.29											
ICh, I	82.24	82.85	90.95	1777-178	53.48											
Lab,b	15.11	14.31	11.29		7.97											
Lab,a	2.32	1.97	89.0		-8.01								,			
Lab, L	82.24	82.82	90.95		53.48											
Yxy, y	0.35	0.34	0.3375		0.3489		Hunter B	13.35	12.75	10.71		90.9				
Yxy, x	0.34	0.34	0.3324		.3155		Hunter a	2.25	1.92	69'0		-6.35				
Yxy, Y	60.76	61.89	78.39		21.49		Hunter L	77.94	78.67	88.53		46.35				
5148	1-89	68-1	50-2-1	50-2-1	(lint fiber)		5148	1-89	1-89	50-2-1	50-2-1	(lint fiber)				





2.14 2.14 0.89 0.89 1.17 2.26 2.74 2.64 2.64 2.64 2.64 2.64 2.64 2.64 2.6	83.19 83.2 93.76 84.18 82.36 83.97 83.77 85.56 82.51 84.02 87.09 83.86	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 0.3474 9 0.3474 9 0.3476 9 0.3436 9 0.3446 9 0.3445 9 0.3447 2 0.3511 4 0.3447 8 0.3447 7 0.3468 9 0.3468 9 0.3467 7 0.3468
	474 278 354 436 475 444 445 447 447 447 447 468	E. C.	
		0.3278 0.3354 0.3436 0.3475 0.3444 0.3445 0.3447 0.3447 0.3447 0.3447 0.3468 Hunter B	
		0.3354 0.3475 0.3475 0.3444 0.3409 0.3447 0.3447 0.3447 0.3468 10.3468	
		0.3436 0.3475 0.3444 0.3445 0.3409 0.3511 0.3447 0.3447 0.3447 0.3468	-
		0.3475 0.3444 0.3445 0.3409 0.3511 0.3447 0.3447 0.3447 0.3468	
		0.3444 0.3445 0.3409 0.3511 0.3447 0.3447 0.3468 10.3468	
		0.3409 0.3394 0.3511 0.3447 0.3447 0.3468 Hunter B	
		0.3394 0.3511 0.3447 0.3447 0.3468 Hunter B	
		0.3511 0.3442 0.3447 0.3468 0.3468 Hunter B	
		0.3442 0.3447 0.3468 0.3468 Hunter B	
		0.3447 0.3468 0.3468 Hunter B	
		0.3447 0.3468 Hunter B	
87.09 2.05		0.3468 Hunter B	
		Hunter B 10.89	
		Hunter B 10.89	\square
		10.89	
		٧.	
		17	
		14.02	
		5.81	
		90.6	
	- 1	12.75	
	- 1	14.09	
		13.05	2.29 13.05
	- 1	11 45	
	- 1	3.11	
		15.36	
		13.07	2.43 13.07
		13.28	
To the state of th	1	13.68	
		14	2.3 14
FIGURE 11			





20.00			7 . 7				1	1	
11-1	72.26	0.3215	0.3254	60'88	1.1	90.3	60'88	21.9	77.8
11-2	58.69	0.3284	0.3335	81.12	9.0	8.36	81.12	8.38	85.9
11-2	52.78	0.3358	0.3335	77.74	3.55	9.22	77.74	9.87	69
1-1	72.03	0.3312	0.3338	87.98	1.72	9.52	86'28	29.6	79.8
11-1	72.34	0.3295	0.332	88.13	1.79	8.64	88.13	8.82	78.4
11-1	71.98	0.3295	0.3313	87.95	2.09	8.39	87.95	8.64	76.1
11-1	73.01	0.3256	0.3305	88.45	99.0	7.51	88.45	7.54	84.9
17-1-2	75.85	0.3274	0.3306	86.78	1.52	7.94	86.78	808	79.3
17-3-1	72.6	0.3271	0.3303	88.25	1.48	7.66	88.25	7.8	79.1
17-4-1	69.02	0.3352	0.3377	86.51	1.78	11.37	86.51	11.5	81.2
25-11-1	69.5	0.3364	0.3401	86.75	1.26	12.41	86.75	12.47	84.2
25-28-1	72.21	0.3324	0.3343	90.88	2.09	6.6	88.06	10.11	78.2
25-36-2	70.46	0.3327	0.3353	87.22	1.73	10.22	87.22	10.36	80.5
35-35-1	75.59	0.3268	0.3299	99.68	1.56	7.58	99.68	7.73	78.4
50-12-1	73.13	0.3284	0.3316	88.5	1.46	8.36	88.5	8.48	80.1
KS-11-2	65.33	0.3371	0.3388	84.65	2.07	11.83	84.65	12	80.1
5616	Hunter	Hinter	Hinter R						
1-1	85	1.09	4.89						
11-2	76.61	0.58	7.64						
11-2	72.64	3.38	8.22						
11-1	84.87	1.72	8.97						
11-1	85.05	1.79	8.2						
11-1	84.84	2.08	7.96						
11-1	85.44	79:0	7.18						
17-1-2	87.08	1.52	7.62						
17-3-1	85.2	1.48	7.31						
17-4-1	83.07	1.76	10.52						
25-11-1	83.36	1.25	11.43						
25-28-1	84.97	2.08	9.32						
5-36-2	83.94	1.72	9:26						
35-35-1	86.94	1.57	7.29						
50-12-1	85.51	1.46	7.96						
KS-11-2	80.82	2.04	10.81						
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80.1	75.2		6.99	77.8									
ָב בייני	24.54	24.11	27.77	21.62									
LCJ, L	66.01	68.15	56.31	74.08									
Lab,b	24.18	23.31	25.52	21.13									
Lab,a	4.24	6.18	10.96	4.6									3
Lab, L	66.01	68.15	56.31	74.08									FIGURE 13
Yxy, y	0.3717	0.3662	0.3728	0.3599		Hunter B	17.92	17.69	17.14	17.02			
Yxy, x	0.3779	0.3778	0.4055	0.3657		Hunter a	3.79	5.62	9.42	4.31			
Yxy, Y	33.34	38.18	24.23	46.84		Hunter L	59.44	61.78	49.22	68.43			
BC	12 Green	22 Brown	3 Red	4 Ivory		BC	12 Green	22 Brown	3 Red	4 Ivory			